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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

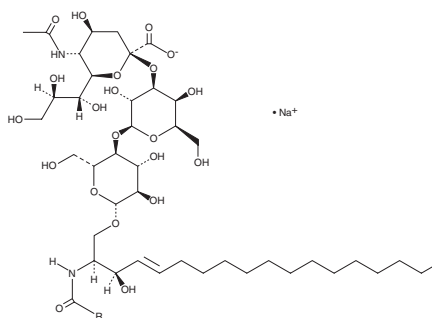
PRODUCT INFORMATION



Ganglioside G_{M3} Mixture (sodium salt)

Item No. 15587

CAS Registry No.: 54827-14-4
Synonyms: Hematoside Mixture,
Sialosyllactosylceramide Mixture
MF: C₅₉H₁₀₇N₂O₂₁ • Na (for tricosanoyl)
FW: 1,203.5
Purity: ≥98%
Supplied as: A lyophilized solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ganglioside G_{M3} mixture (sodium salt) is supplied as a lyophilized solid. A stock solution may be made by dissolving the ganglioside G_{M3} mixture (sodium salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Ganglioside G_{M3} is a monosialoganglioside that demonstrates antiproliferative and pro-apoptotic effects in tumor cells by modulating cell adhesion, proliferation, and differentiation.^{1,2} It suppresses angiogenesis and reduces proliferation and migration of human umbilical vein endothelial cells (HUVECs) when used at a concentration of 20 μM *via* inhibition of VEGFR2 and Akt phosphorylation.^{1,2} Ganglioside G_{M3} induces dissociation of the insulin receptor-caveolin-1 complex from lipid microdomains, functioning as an inhibitor of insulin signaling and contributing to insulin resistance in adipocytes.³ Ganglioside G_{M3} mixture contains ganglioside G_{M3} molecular species with C18:1 and C20:1 sphingoid backbones.

References

1. Mukherjee, P., Faber, A.C., Shelton, L.M., *et al.* Thematic review series: Sphingolipids. Ganglioside G_{M3} suppresses the proangiogenic effects of vascular endothelial growth factor and ganglioside GD1a. *J. Lipid Res.* **49(5)**, 929-938 (2008).
2. Seyfried, T.N. and Mukherjee, P. Ganglioside G_{M3} is antiangiogenic in malignant brain cancer. *J. Oncol.* 961243 (2010).
3. Kabayama, K., Sato, T., Saito, K., *et al.* Dissociation of the insulin receptor and caveolin-1 complex by ganglioside G_{M3} in the state of insulin resistance. *Proc. Natl. Acad. Sci. U.S.A.* **104(34)**, 13678-13683 (2007).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM